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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/657,350	09/08/2003	Cheri M. Boykin	1792A1	1646	
7590 05/03/2005			EXAMINER		
PPG INDUSTRIES, INC.			LEE, SIN J		
INTELLECTU	IAL PROPERTY DEPT.				
ONE PPG PLA	ACE		ART UNIT	PAPER NUMBER	
PITTSBURGH	I, PA 15272		1752		
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DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				to n			
		Application No.	Applicant(s)				
		10/657,350	BOYKIN ET AL.				
(Office Action Summary	Examiner	Art Unit				
		Sin J. Lee	1752				
TI Period for R	ne MAILING DATE of this communication ap aply	pears on the cover sheet	with the correspondence address				
THE MAI - Extensions after SIX (i - If the perio - If NO perio - Failure to any reply i	TENED STATUTORY PERIOD FOR REPL LING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1. of time may be available under the provisions of 37 CFR 1. of the provisions of 37 CFR 1. of this communication. of this communication is less than thirty (30) days, a reply of the provision of the pr	.136(a). In no event, however, may ply within the statutory minimum of t I will apply and will expire SIX (6) Mi te, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communi ABANDONED (35 U.S.C. § 133).	cation.			
Status							
1)⊠ Re:	sponsive to communication(s) filed on 08	September 2003.					
2a)□ Thi	s action is FINAL . 2b)⊠ Th	is action is non-final.					
3) □ Sin	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
clo	sed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Disposition	of Claims						
4)⊠ Cla	Claim(s) <u>1-40</u> is/are pending in the application.						
4a)	4a) Of the above claim(s) <u>28-34</u> is/are withdrawn from consideration.						
5)⊠ Cla	Claim(s) <u>25</u> is/are allowed.						
6)⊠ Cla	Claim(s) <u>1-3,5-7,15,16,26,27,35 and 36</u> is/are rejected.						
7)⊠ Cla	Claim(s) 4,8-14,17-24 and 37-40 is/are objected to.						
8)⊠ Cla	im(s) 1-40 are subject to restriction and/or	r election requirement.					
Application	Papers						
9) □ The	specification is objected to by the Examir	ner.					
10)⊠ The	10)⊠ The drawing(s) filed on <u>08 September 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
App	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Rep	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)□ The	oath or declaration is objected to by the E	Examiner. Note the attach	ed Office Action or form PTO-15	52.			
Priority und	er 35 U.S.C. § 119						
a)	Certified copies of the priority documer Certified copies of the priority documer	nts have been received. Its have been received in ority documents have been au (PCT Rule 17.2(a)).	Application No en received in this National Stag	e			
Attachment(s)							
	References Cited (PTO-892)		w Summary (PTO-413) lo(s)/Mail Date				
3) 🛛 Informatio	Draftsperson's Patent Drawing Review (PTO-948) n Disclosure Statement(s) (PTO-1449 or PTO/SB/08 (s)/Mail Date <u>12-11-03</u> .		of Informal Patent Application (PTO-152)				

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DETAILED ACTION

1. Applicant's election of Group 1 (claims 1-17 and 35-40) in the reply filed on January 28, 2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 28-34 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 5-7, 15, 16, 35, and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by Crutchfield et al (4,365,018).

In claim 1, Crutchfield teaches an imaging element comprising a support member, a light sensitive imaging layer, and a light generating unit. Crutchfield also teaches (see claim 20) an imaging process, in which the light generating unit is activated first so that the light generating unit chemiluminesces, and the light sensitive imaging layer is image-wise exposed with the chemiluminescence generated from the light generating unit. Crutchfield teaches applying a solution of hydrogen peroxide to the surface of the light generating unit in order to activate the light generating unit (see col.9, lines 19-25 and Example 1). Crutchfield also teaches Therefore, Crutchfield

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teaches present inventions of claims 1-3, 5-7, 15, 16, 35 and 36 (it is the Examiner's position that Crutchfield's step of applying a solution of hydrogen peroxide to the surface of the imaging element would inherently be capable of simulating photoactive properties on the surface and demonstrating hydrophilicity of the surface by exposing the surface to electromagnetic radiation having one or more wavelengths of visible light as presently recited in claims 1 and 15).

4. Claims 26 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Sawai et al (US 6,258,969 B1).

Sawai teaches (see col.19, lines 54-64) that the polymethoxysiloxane obtained by his invention can be used as a *coating material*, which provides remarkable effects for example, in imparting a hydrophilic nature. Therefore, the prior art teaches present inventions of claims 26 and 27.

Allowable Subject Matter

5. Claims 4, 8-14, 17-24, and 37-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Crutchfield'018 does not teach or suggest present titania surface of claims 4, 24, and 40. Crutchfield'018 does not teach or suggest present thickness range for the photoactive coating of claim 8. Crutchfield'018 does not teach or suggest present drying step of claim 9. Crutchfield'018 does not teach or suggest present step of applying at least partly hydrolyzed polyalkoxysiloxane material of claims 12, 17, and 38. Crutchfield'018 does not teach or suggest present photoactive material of claim 37.

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6. Claim 25 is allowed. None of the cited prior arts teaches or suggests present method of 25.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sin J. Lee whose telephone number is 571-272-1333. The examiner can normally be reached on Monday-Friday from 9:00 am EST to 5:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly, can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S.J.L.

S. Lee May 1, 2005

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